Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An apparatus for analyzing nitropolycyclic aromatic hydrocarbons, comprising:

an auto-sampler to which a methanol water mixture and a sample comprising nitropolycyclic aromatic hydrocarbons are sent;

a separation column downstream of the auto-sampler for receiving configured to receive the methanol water mixture and the sample from the auto-sampler and separating configured to separate the sample comprising nitropolycyclic aromatic hydrocarbons into at least four separate nitropolycyclic aromatic hydrocarbons including 1-nitropyrene, 1,3-dinitropyrene, 1,6-dinitropyrene and 1,8-dinitropyrene;

a reduction column downstream of the separation column for receiving configured to receive the at least four separate nitropolycyclic aromatic hydrocarbons including 1-nitropyrene, 1,3-dinitropyrene, 1,6-dinitropyrene and 1,8-dinitropyrene from the separation column and aminating to aminate the separated nitropolycyclic aromatic hydrocarbons; and

a fluorescence detector.

2. (Withdrawn and Currently Amended) An apparatus for analyzing nitropolycyclic aromatic hydrocarbons, comprising:

an auto-sampler to which a methanol water mixture and a sample

comprising nitropolycyclic aromatic hydrocarbons are sent;

a separation column downstream of the auto-sampler for receiving configured to receive the methanol water mixture and the sample from the auto-sampler and separating configured to separate the sample containing nitropolycyclic aromatic hydrocarbons into at least four separate nitropolycyclic aromatic hydrocarbons including 1-nitropyrene, 1,3-dinitropyrene, 1,6-dinitropyrene and 1,8-dinitropyrene;

a reduction column downstream of the separation column for receiving configured to receive the at least four separate nitropolycyclic aromatic hydrocarbons including 1-nitropyrene, 1,3-dinitropyrene, 1,6-dinitropyrene and 1,8-dinitropyrene from the separation column and aminating to aminate the separated nitropolycyclic aromatic hydrocarbons;

an analysis column for separating configured to separate an interfering component contained in the sample from the aminated separated nitropolycyclic aromatic hydrocarbons; and

a fluorescence detector.

3-8. (Canceled)

 (Previously Presented) The apparatus for analyzing nitropolycyclic aromatic hydrocarbons according to claim 1, wherein the reduction column is an alumina/Pt-Rh reduction column.

10-11. (Canceled)

12. (Withdrawn) The apparatus for analyzing nitropolycyclic aromatic hydrocarbons according to claim 2, wherein the reduction column is an alumina/Pt-Rh reduction column.

13-14 (Canceled).

- 15. (Previously Presented) The apparatus for analyzing nitropolycyclic aromatic hydrocarbons according to claim 1, wherein the separation column is a silica gel/C8 column.
- 16. (Withdrawn) The apparatus for analyzing nitropolycyclic aromatic hydrocarbons according to claim 2, wherein the separation column is a silica gel/C8 column.
- 17. (New) The apparatus for analyzing nitropolycyclic aromatic hydrocarbons according to claim 1, further comprising ultrasonic generator provided upstream of the auto-sampler for applying ultrasonic waves to a mixture of diesel particulates and an organic solvent to dissolve soluble organic fractions of the diesel particulates in the organic solvent.
- 18. (New) The apparatus for analyzing nitropolycyclic aromatic hydrocarbons according to claim 2, further comprising ultrasonic generator provided upstream of the auto-sampler for applying ultrasonic waves to a

mixture of diesel particulates and an organic solvent to dissolve soluble organic fractions of the diesel particulates in the organic solvent.